SITUATION AND LAYOUT CHECKLIST FOR HIGHWAY / WATERWAY CROSSINGS

PRC	JECT NAME:
PRC	JECT KEY NUMBER:
	DGE DRAWING NUMBER: CHECKED BY:
	encil to mark items. Use an X or \checkmark to indicate completion. Use "INC" to indicate items which are incomplete and "N/A" icate items which do not apply. For additional information on the design requirements refer to Chapter 17 of the "LRFD" real.
BOR	<u>rder</u>
<u> </u>	Designed and Detailed Names
	Design Checked and DWG Checked Names (required when work has been checked)
	Corrections Name (need only be completed when corrections have been made)
	Engineers Stamp (For Full and Half sized Sheets)
	Project Number
	Sheet Title
	Project Description (Length, Type of Support, Crossing, Station)
	Bridge Inspection Master Key (Only required on sheet 1)
	Bridge Drawing Number (required but may not be available during preliminary design)
	Project County and Key Number
	Sheet Numbering (required for final design and PS&E submittals)
<u>PLA</u>	<u>N VIEW</u>
	View Title with scale factor
	Length of Structure (out to out) along survey line
	Station and Finished Grade Elevation at the Beginning and End of structure along Centerline.
	Abutment / Pier number, Station, and Finished Grade Elevation shown at the Intersection of the Abutment / Pier
	Centerline and Survey line at the following locations:
	Centerline of bearing of Abutments
	Center of Piers / Bents
	Span lengths along survey line shown as follows:
	Single Spans or End Spans: abutment centerline bearing - centerline pier/bent
	Interior Spans: centerline pier/bent - centerline pier/bent
	Bridge Width shown (out - out). Width should include the parapet, curb and sidewalk as applicable.
	Curb-to-Curb Width shown
	Roadway Lane and Shoulder Widths shown
	Lane Direction and Name of Closest Town/Geographical Feature in that Direction indicated
	North arrow shown
	Intersection Angle shown if not a 90° crossing
	horizontal and vertical clearances shown as follows:
	Highway Crossings: Show the point of minimum vert. and horiz. clearance for the highway
	Stream Crossings: Show the point of minimum clearance above Q50 high water elevation Identification of Survey and Profile lines
	Existing Bridge Details shown (as needed)
	Existing Bridge Drawing Number given (Needed only if existing bridge is to be removed)
	Plan View Oriented so Elevation View can be placed below Plan View
	Bridge Stationing at Centerline of Structure shown and runs Left to Right of sheet
	Culvert Stationing at Centerline of Structure shown and runs Bottom to Top of sheet
	Rip Rap Limits shown with pay note (as applicable)
	Contour lines shown and gray shaded
	Utilities Crossing the structure shown (as applicable)
	Deck drains shown (as applicable)
	Survey Cap shown with installation note

^{*} Horizontal Alignment Data should be included in this view if possible. See Horizontal Alignment Data Checklist for items to be included.

ELE	EVATION VIEW
	View Title with scale factor
	Total length between abutment centerlines along survey line shown
	Abutment/Pier Number and Station shown at the following locations:
	Centerline Bearing of Abutments
	Centerline of Piers/Bents
	Span Length Shown
	Span Number Shown (Multi-Span Structures only)
	Fixity Shown ("E" Expansion, "P" Pinned, or "F" Fixed) (not required on stifflegs)
	Minimum Vertical Clearances shown as follows:
	Highway Crossing: Minimum Clearance from roadway
	Stream Crossing: Minimum Clearance form Q ₅₀ High Water Elevation
	Ground Line along the Centerline of Structure Shown
	Abutment Slopes shown and annotated
	Abutment / Pier Projection lines shown (Do not show where projection lines may be confusing)
	Roadway approach Guardrails shown with associated note
PRO	OFILE DATA
	View Title with scale factor
	Profile Grade Across Structure Shown
	Structure Location Shown on Profile
	Station and Elevation for the Beginning and End of Structure Shown
	Profile Grades for all Highways involved in Crossing Shown
	The following Vertical Curve Data Shown:
	Stations and Elevations at Point of Curvature, Point of Intersection, and Point of Tangency
	Length of Vertical Curve
	Incoming and Outgoing Grades as a percent
НО	RIZONTAL ALIGNMENT DATA
*	Horizontal Alignment Data should be included in the Plan view if possible.
	View Title
	Stations and Elevations at Point of Curvature, Point of Intersection, and Point of Tangency Shown
	Horizontal Curve data Shown (Δ , T, L, R, S, RL, and Z)
	Horizontal Curve described in Degree of Curve
	Super Elevation Transition Data Shown (If possible)
	Alignment Bearing (Should be shown in Plan View if possible)
HY	DRAULIC DATA
	View Title
	Hydraulic Data for Streams and Rivers shown for the following conditions:
	Design (Flood, discharge, H.W. Elev., and Velocity)
	Base (Flood, discharge, H.W. Elev., and Velocity)
	Scour (Flood, discharge, H.W. Elev., and Velocity)
	Hydraulic Data for Canals Shown (Canal Flow, H.W. Elev., Velocity, and Flow Controller)
TR	AFFIC DATA
	View Title
	Traffic Data for Construction Year and 20 years past Construction year Shown
	(Current ADT, Future ADT, Current ADT % Trucks, Future ADT % Trucks, Design Speed)
INΓ	DEX OF SHEETS
11 11	View Title
	Sheet number and Sheet Title Shown for all Sheets
	ANTITIES
QU.	
	View Title Pid Itom Number Description and Unit Shown for all applicable itoms
	Bid Item Number, Description, and Unit Shown for all applicable items Bid Item Quantity Shown (Not Required until Final Design)
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